What is claimed is:

- 1. A ceramic material coating method of forming a coating film on a base by applying a ceramic material including a complex oxide to the base by spin coating, the method comprising:
 - a first rotational step of rotating the base at a predetermined rotational speed;
- a second rotational step of rotating the base at a rotational speed lower than the rotational speed in the first rotational step; and
- a third rotational step of rotating the base at a rotational speed higher than the rotational speed in the second rotational step.
 - 2. The ceramic material coating method as defined in claim 1,

wherein the rotational speed in the third rotational step is higher than the rotational speed in the first rotational step.

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- 3. The ceramic material coating method as defined in claim 1, further comprising:
- a step of drying the coating film after forming the coating film by the spin coating.

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4. The ceramic material coating method as defined in claim 3,

wherein the step of drying the coating film is performed by blowing gas onto the coating film.

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5. The ceramic material coating method as defined in claim 1,

wherein the ceramic material includes at least one of a sol-gel raw material and an MOD raw material, the sol-get raw material including at least one of a hydrolysate and a polycondensate of the complex oxide, the MOD raw material including constituent elements of the complex oxide in an organic solvent.

- 6. The ceramic material coating method as defined in claim 1,
- wherein the base to which the ceramic material is applied includes an electrode layer made of a platinum group element on a surface of the base.
 - 7. A ceramic film obtained by the ceramic material coating method as defined by claim 1.

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- 8. A ceramic film obtained by the ceramic material coating method as defined by claim 2.
- 9. A ceramic film obtained by the ceramic material coating method as defined by claim 3.
 - 10. A ceramic film obtained by the ceramic material coating method as defined by claim 4.

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